

2000 2080 AACTAATOBGCTAGAGGGGATCAATGCTGCTGCTTGGTGAAGACTGTTTTATCCTGATGCCGACTGGAGGTGGTAAGA 2160 1680 AGGICGGCCAAITAAAICAGIATCAGAAAGACTITCCICAGCCAAGACAGACTGTCTTCCAGTGTCATCTACTGCTCAAA 1920 1360 1440 1520 1600 1760 1280 cgitticcaaagicttagttiticctcatacaaaggaaatgaagattititiggcctgcctaaattitigg ATATAAACITYCIYCAGAGTCAATTYCAGAATTATACTGACAAGTYCAGCACAAAATTTTAGCATYCAGAAATYYGAAACATGAG AGGAAGAAICITITIGAAAGGCCITTATICAATACCCAITTACAGAAGICCTITIGTAAGTAGCAACTGGGGTGAAACACC AAGACTAGGAAAAAAAAAGGTCTTATTTCCCAGGAAATGTTCTCACAAGCACTGCTGTGAAAAGATCAGAATAAAC ATACTGCTTCAATAAATGACTTAGAAAAGAGAAACCCAACCTTCCTATGATATTGATATTTTTGACATAGATGACTTTGAT ATACAGGCCTGAITCACTTGATGGCCCTATGGAGGGTGAITCCTGCCCTACAGGGAATTCTATGAAGGAGTTAATTTTT CACACCTTCCCTCCAAAITTCTGTTTCTGGGGACTGTTTACTGACTACCACCCTAGGAAAGACAGGAITTCTCTGCCACC TATGCAGGAGCTGAATCCAGAAACCAGCACAGACTGTGACGCTAGACAGATAAGTTTTACAGCAGCAGCTTATTCATGTGA CAGCGGAACATAAGAAGGAAACTTCTAACGGAAGTAGATTTTAATAAAAGTGATGATGCCAGTCTTCTTGGCTCATTGTGGAG Ë S I Q N Y T D K S A Ö N Î A S Ř N L K H E ELNF LLGSLW DDDDWEDIMHNLAASKSSTAAYQPIŘ G N E L SINDLERETOPSYDIDNFDIDDF ₩4 EH W3 Ø O K S F V S S N W A ſΣĄ GEDCFILMPTG CDARQISLQQQL TAVKD ტ PIRSVSERLISSAKTDCLPVS RPDSLDGPMEGDSCPTGNSMK ល NSVSPGDCLLTTTLGK CKLIDTIPDDKLKLDC ഗ NIRRKLLTEVDFNKSDA ᄓ LGKKNESSYFPGNVLTS H LFERPLFNTHL ഗ ᆸ ELNPETSTD ы × ĸ Ω ഗ ഗ n D SHLP 吆 536 919 643 590 376 456 510 563 323 350 403 430 483

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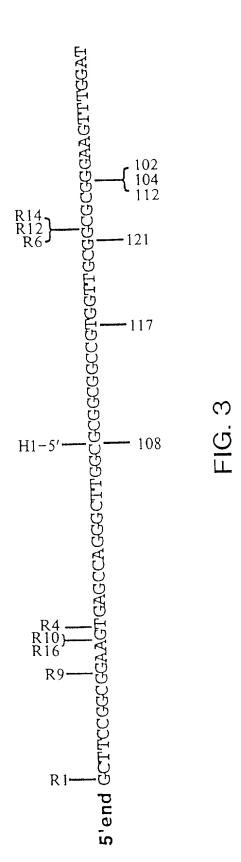
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3200 GCCTACTTTGGTGAAATGGATTTAATCCTGATTTTTGTAAGAAACACCCCAGATGTTTCTTGTGATAATTGCTGTAAAAC 3280 CCTGCTTTTCTATACCTATCATGAGACGAGACTGAAAAGACTTATAATGATGGAAAAAAGATGGAAAACCATCATACAA 3120 2960 3040 2800 2720 GAGAGATGGGCTCGCTGCTCTTGCTTACCATGCTGGTGATTCTGCCAGAGATGAAGTGCAGCAGAAGTGGATTA 2880 2400 2480 2560 2640 agaaactcacttcaataatttgtatagcatggtacattactgtgaaaatataacggaatgcaggagaatacagcttttg CATGCATCTCCCTAAATCTGTGGAGGGTTACTACCAAGAATCTGGCAGAGCTGGAAAGAGAGATGGGGAAATATCTCACTG AGAAAGCACCCCATATGATTCAGGGATAATTTACTGCCTCTCCCAGGCGAGAATGTGACACCCATGGCTGACACGTTACA ATCAGGATGGCTGTCAGGTTATCTGTGCTACAATTGCATTTGGAATGGGGATTGACAAACCGGACGTGCGATTTTGTGATT GCTTTAACAGACATAATCTGAAATACTATGTATTACCGAAAAAGCCTAAAAAGGTGGCATTTGATTGCCTAGAATGGATC TACGCCCACAGCTAATCCCAGGGTACAGAAGGACATTCTCAGCTGAAGATTCTCAGACCTCAGGTGTTTAGCATGA TTACCTCCAGTTATCAAAAAAAAGACCCAATCATAAAACTTCTATATGTCACTCCAGAAAAGATCTGTGCAAGTAACAGAC N N IDKPDVRFV SFNRHNLKYYVLPKKPKKVAFDCLEW E K D G N H H O L G L S D S A R D E V Q Q К W × PYDSGIIYCLSRRECDTMADT н ш ტ PSVPV æ RVQKDILTQLKILRPQV ENLYERKLLARFVIDEAH SKKDPIIKLLYVTPEKIC THFNNLYSMVH_YCENITECR рц GRAGRD LLFYTYHDVTRLKRLIMM HDFRQDYKRMNMLRQK GVTVVI U Q D G C Q V I C A T I A F G M G Y Y O E S ENGFR POF s Pi GLAALAYHA L P K S V E ST ט 4 1016 936 990 910 1043 856 963 830 883 176 803 969 723 750

FIG. 20

070	K D Y K T R D V T D D V K S I V R F V Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	ACATGTAGGT
960	096 G M R N I K H V G P S G K F I M N I Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	TCAGGTATATTTGGAAAAAAAAICIGCIIAAIAAAAAAAAAA
123	SAKIQ
	GATACTTGACAAGATTTTTGGATGAAGATTATTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTGGATAGATTTTTT
1150	I L D K I L L D K I L L L L L L L L L L L L L L L L L L
1176	AAGCCCAAACIGINGINING NIK V DFMETENSSSVKKO K
	AGTGTCTCAGAGGGAAGAGTGAAAAAAAAAAAAAAAAAA
1203	1203 A L V A K V S Q R E E M V N N C C C C C C C C C C C C C C C C C
	GGGGAAAGTTTTTGGTGTCCATTACTTCATATTTTTTTTT
1230	G K V F G V H Y F N I F N I S 3920
	ATCCTGAGGITTTGCTTCAAATTGATGGIGTTACLGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
1256	D P E V L L Q I D G V I L L Q 1000
	ĸ
1283	OKYSHWT
1310	SAABBLUE
	GCCTCCCAAAGGICIAALAAAAAAAAAAAAAAAAAAAAAAAAAA
1336	1336 R K K M P A S Q K S K K K K W P A S Q K S K K K K W P A S Q K S K K K K W P A S Q K S K K K K K W P A S Q K S K K K K K K W P A S Q K S K K K K K K W P A S Q K S K K K K K K K K K K K K K K K K
	ACATGTAGAAAGATATCTTCCAAAACGAAAATCTCCAGGAAATTCTTCGAGAAAGATATCTTCCAAAAGATATCTTCCAAAAGATATCTTCCAAAAAAAA
1363	
	CCGAAGCIAIAAAIAAACCCIIIC
1390) S G A N S K L G I M A P P K P I N K I
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* FPHTKEMMKIFHKKFGLHNFRTNQLEAINAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVVISPLRSLIVDQV BLM FPWSGKVKDILQNVFKLEKFRPLQLETINVTMAGKEVFLVMPTGGGKSLCYQLPALCSDGFTLVICPLISLMEDQL REQL YPWSDEVLYRLHEVFKLPGFRPNQLEAVNATLQGKDVFVLMPTGGGKSLCYQLPAVKSGKTHGTTIVISPLISLMQDQV SGS1VLQETFGYQQFRPGQEEIIDTVLSGRDCLVVMPTGGGKSLCYQIPALLLNGLTVVVSPLISLMKDQV recQ	II OKLTSLDIPATYLTGDKTDSEATNIYLQLSKKDPIIKLLYVTPEKICASNRLISTLENLYERKLLARFVIDEAHCVSQWG BLM MVLKQLGISATMLNASSSKEHVKWVHDEMVNKNSELKLIYVTPEKIAKSKMFMSRLEKAYEARRFTRIAVDEVHCCSQWQ REQL EHLLNKNIKASMFSSRGTAEQRRQTFNLFINGLLDLVYISPEMISASEQCKRAISRLYADGKLARIVVDEAHCVSNWG SGS1 DQLQANGVAAACLNSTQTREQQLEVMTGCRTGQIRLLYIAPERLMLDNFLEHL-AHWNPVLLAVDEAHCISQWG recQ	III ** HDFRQDYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKILRPQVFSMSFNRHNLKYYVLPKKPKKVAFDCLEW BLM HDFRPDYKALGILKRQFPNASLIGLTATATNHVLTDAQKILCIEKCFTFTASFNRPNL-YYEVRQKPSNTEDFIEDIVKL REQL HDFRPDYKELKFFKREYPDIPMIALTATASEQVRMDIIHNLELKEPVFLKQSFNRTNL-YYEVNKKTKNTIFEICDA SGS1 HDFRPDYKELKFFKREYPDIPMIALTATASEQVRMDIIHNLELKEPVFLKQSFNRTNL-YYEVNKKTKNTIFEICDA FECQ	IV IRKHHPYDSGIIYCLSRRECDTMADTLQRDGLAALAYHAGLSDSARDEVQQKWINQDGCQVICATIAFGMGIDKPDVRFV BLM INGRYKGQSGIIYCFSQKDSEQVTVSLQNLGIHAGAYHANLEPEDKTTVHRKWSANE-IQVVVATVAFGMGIDKPDVRFV REQL VKSRFKNQTGIIYCHSKKSCEQTSAQMQRNGIKCAYYHAGMEPDERLSVQKAWQADE-IQVICATVAFGMGIDKPDVRFV SGS1 VQEQ-RGKSGIIYCNSRAKVEDTAAALQSKGISAAAYHAGLENNVRADVQEKFQRDD-LQIVVATVAFGMGINKPNVRFV recQ	VI IHASL PKSVEGYYQESGRAGRDGEISHCLLFYTYHDVTRLKRLIMMEKDGNHHTRETHFNNLYSMVHYCENITECRRIQL BLM IHHSMSKSMENYYQESGRAGRDDMKADCILYYGFGDIFRISSMVVMENVGQQKLYEMVSYCQNISKSRRVLM REQL YHFTVPRTLEGYYQETGRAGRDGNYSYCITYFSFRDIRTMQTMIQKDKNLDRENKEKHLNKLQQVMAYCDNVTDCRRKLV SGS1 VHFDIPRNIESYYQETGRAGRDGLPAEAMLFYDPADMAWLRRCLEEKPQGQLQDIERHKLNAMGAFAEAQT-CRRLVL reCQ
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FIG. 4

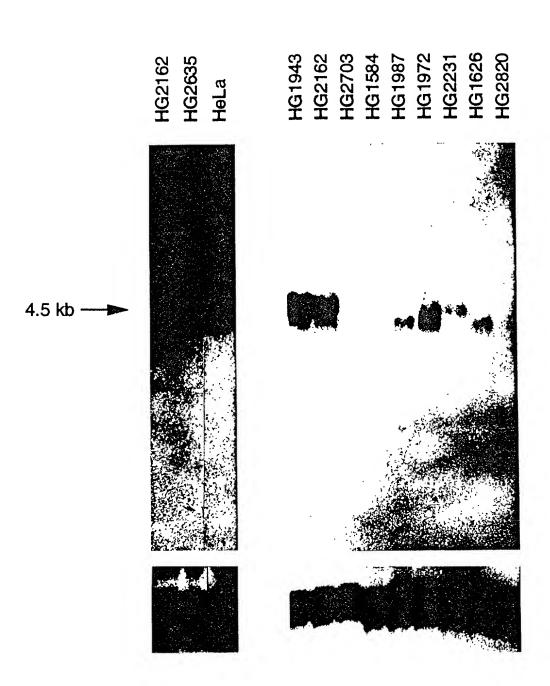


FIG. 5A

FIG. 5B





FIG. 6B

FIG. 6C





FIG. 6E